

Heavy Ion SEE

Test Org.*	Device	Function	Technology	Mfr.	Effective SEU LET* Threshold	Device Xsection (cm <sup>2</sup> )	Bits Tested	Bit Xsection (cm <sup>2</sup> )	Test Date	LUth	LU Xsection (cm <sup>2</sup> )	Fac.	Remarks
<b>Optoelectronics</b>													
Note: Entries in <b>RED</b> indicate data added since the 1997 Compendium.													
JPL	6N140	Darlington Amplifier	700µm (GaAsP) sandwich	HPA	11				1997			BNL	Johnston, et al, 98IEEE TNS Vol. 45, No. 6, pg 2867.
JPL	HCPL5203	Hi-gain Amp.	700µm (GaAsP) sandwich	HPA	0.3	~3.8E-03			1997			BNL	Johnston, et al, 98IEEE TNS Vol. 45, No. 6, pg 2867. No saturation X-section @ LET = 40.
JPL	HCPL5631 (6N134)	Hi-gain Amp.	700µm (GaAsP) sandwich	HPA	0.3	~2.6E-03			1997			BNL	Johnston, et al, 98IEEE TNS Vol. 45, No. 6, pg 2867. No saturation X-section @ LET = 30.
GSFC	HCPL5631 (6N134)	Hi-Gain Amp.	700 µm (GaAsP) sandwich	HPA	38.2	4.5E-08			1997			UCD	LaBel, et al, 97IEEE TNS, Vol. 44, No. 6, pg 1885. D/C9247 & 9707.
GSFC	HCPL6651			HPA	<0.03				1997			BNL	O'Bryan, et al, 98IEEE Wrkshp Rec., pg 39. SET @ LET <0.03
CNES	HSSR-7110	Power MOSFET optocoupler.	AlGaAs LED; n-ch MOSFET	HPA	>100					>100		BNL	LaBel, et al, 96IEEE Wrkshp Rec., pg 19.
<b>Legend</b>													
Manufacturers: HAM - Hamamatsu; HPA - Hewlett-Packard; LED - Lockheed Corp; MPC - Micropac, Corp; OPT - Optek, Inc													
<b>Test Organizations</b>													
<b>Radiation Test Facilities</b>													
CNES - Centre National d'etudes Spatiales, Toulouse, France							BNL - Tandem Van de Graaff, Brookhaven National Laboratories, Long Island, NY						
GSFC - Goddard Space Flight Center, Greenbelt, MD							SPR - Sandia Pulse Reactor, Albuquerque, NM						
JPL - Jet Propulsion Laboratory, Pasadena, CA							UCD - University of California at Davis, Crocker Nuclear Laboratory, Davis, CA						